

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	1	("20050182401").PN.	US-PGPUB; USPAT	OR	OFF	2010/03/19 12:26
S1	2317	(606/61).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/06/29 08:50
S2	10	("5375823" I "5529420").PN. OR ("6241730").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 10:17
S3	52	("1780724" I "2287608" I "2987291" I "3369802" I "3371442" I "3710458" I "3752462" I "3901495" I "3904226" I "3993295" I "4200268" I "4445674" I "4591030").PN. OR ("5375823").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 10:55
S4	24455	"shock absorber"	EPO; DERWENT	OR	ON	2006/06/29 11:16
S5	25	S4 same "spine"	EPO; DERWENT	OR	ON	2006/06/29 10:57
S6	9	S4 same "vertebrae"	EPO; DERWENT	OR	ON	2006/06/29 10:59
S7	53807	damper	EPO; DERWENT	OR	ON	2006/06/29 10:59
S8	9	S7 same "vertebrae"	EPO; DERWENT	OR	ON	2006/06/29 11:00
S9	39917	"shock absorber"	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 12:50
S10	132	S9 same "vertebrae"	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:20
S11	193	S9 same "spine"	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:23
S12	35	S9 same "asymmetrical"	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:24
S13	139	S9 same "non-linear"	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:34
S14	1355	S9 same "offset"	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:31
S15	72	S14 same "plunger"	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:32
S16	75963	damper	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:34
S17	58	S16 same "spine"	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:34
S18	2	(("5672175") or ("6241730")).PN.	US-PGPUB; USPAT	OR	OFF	2006/06/29 12:50
S19	3214	(606/61).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/04/14 10:45

S20	34	S19 and damper	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/14 10:48
S21	66	("1780724" I "2287608" I "2987291" I "3369802" I "3371442" I "3710458" I "3752462" I "3901495" I "3904226" I "3993295" I "4200268" I "4445674" I "4591030").PN. OR ("5375823").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/14 10:49
S22	62	(267/141.7).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/04/14 11:09
S23	118	(267/140.5).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/04/14 11:11
S24	398	(267/140.11).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/04/14 11:13
S25	11	S24 and eccentric	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/14 11:13
S26	192	(606/256,257).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 09:37
S27	13	("3559976" I "3862751" I "3977397" I "4516955" I "5306310" I "5423816" I "5540688" I "5639278" I "5672175" I "5733284" I "5895032" I "6136031" I "6402750").PN. OR ("7329258").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/05 09:39
S28	624	(267/293-294).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 09:43
S29	119	(267/140.5).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 09:56
S30	574	(267/141.2-141.7).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 09:58
S31	302	(267/141.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 10:08
S32	30	(606/260).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 10:15
S33	299	(606/246).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 10:16
S34	21	("5375823" I "5529420").PN. OR ("6241730").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/05 10:19
S35	69	("1780724" I "2287608" I "2987291" I "3369802" I "3371442" I "3710458" I "3752462" I "3901495" I "3904226" I "3993295" I "4200268" I "4445674" I "4591030").PN. OR ("5375823").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/05 10:20
S36	57	(248/616).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 10:34
S37	282	(248/635).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 10:40
S38	380	(248/636).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 10:43
S39	107	(248/605).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/05 10:58

S40	949	A61B017/70.ipc.	EPO; JPO; DERWENT	OR	ON	2008/09/05 11:00
S41	11	S40 and absorb\$3	EPO; JPO; DERWENT	OR	ON	2008/09/05 11:02
S42	10	S40 and shock	EPO; JPO; DERWENT	OR	ON	2008/09/05 11:04
S43	168	(188/312).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/08 11:56
S44	626	(188/322.16,322.17,322.19).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/08 11:57
S45	1	("6279932").PN.	US-PGPUB; USPAT	OR	OFF	2008/09/08 11:58
S46	1	("5454455").PN.	US-PGPUB; USPAT	OR	OFF	2008/09/08 11:58
S47	88	(188/303).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/08 12:08
S48	737	(188/317).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/08 12:10
S49	18	("3316558").URPN.	USPAT	OR	ON	2008/09/08 12:21
S50	18	("1589670" I "2568052" I "2671224" I "3316558" I "3631542" I "3799159" I "4508111" I "4958705").PN. OR ("5103811").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:22
S51	42	("2661000" I "3548817").PN. OR ("4508111").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:24
S52	48	("2532955" I "2832334" I "3707963" I "4233967" I "4320747" I "4340041" I "4353361" I "4397308" I "4508111" I "4531515" I "4605227" I "4614181" I "4620532" I "4655201" I "4657000" I "4666158" I "4688130" I "4718665" I "4738252" I "4791916" I "4809688" I "4881533").PN. OR ("5002044").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:26
S53	393	(188/288-289).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/08 12:34
S54	1557	"non-linear" same (shock or absorber or dashpot)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:43
S55	13303	"angular" same (shock or absorber or dashpot)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:49
S56	9886	"offset" same (shock or absorber or dashpot)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:49
S57	1814	"offset" same ("shock absorber" or dashpot)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:49
S58	2655	"angular" same ("shock absorber" or dashpot)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:50
S59	24	("2980441" I "3010715" I "4325541" I "4555096" I "4635745" I "5129634" I "5192100" I "5454455").PN. OR ("5667203").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:53

S60	32	S58 and oblong	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 12:58
S61	22	S57 and oblong	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/08 13:00
S62	25	("5375823" I "5529420").PN. OR ("6241730").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/30 10:23
S63	80	("1780724" I "2287608" I "2987291" I "3369802" I "3371442" I "3710458" I "3752462" I "3901495" I "3904226" I "3993295" I "4200268" I "4445674" I "4591030").PN. OR ("5375823").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/30 10:24
S64	5	(shock adj absorb) same oblong	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/30 10:44
S67	14	(shock adj absorb) and oblong	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/30 10:45
S68	77	("0301522" I "0302503" I "0326224" I "0852570" I "0938168" I "1603588" I "4351538" I "4382605" I "4402521" I "4915399" I "5257793").PN. OR ("5503413").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/30 10:49
S69	2	(( "5375823") or ("4445674")).PN.	US-PGPUB; USPAT	OR	OFF	2009/05/13 12:40
S70	589	fortin.in.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 13:27
S71	5	fortin-frederic.in.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 13:27
S72	8556	angle with (shock or absorber or dashpot)	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 13:33
S73	501	S72 and (oblong or eccentric)	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 13:33
S74	1	("RE40649").PN.	US-PGPUB; USPAT	OR	OFF	2009/05/13 13:44
S75	18	("3176972" I "3207270" I "3750856" I "3840097" I "4026533" I "4056040" I "4059175" I "4151784" I "4702355" I "4819770" I "5050712" I "5305860" I "5464079" I "5948021" I "5988330" I "6112868").PN. OR ("RE40649"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 13:44
S77	215	eccentric with absorber	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 13:59
S78	0	("2178332").URPN.	USPAT	OR	ON	2009/05/13 14:02
S79	5	("2379388").URPN.	USPAT	OR	ON	2009/05/13 14:03
S80	1	("3038545").URPN.	USPAT	OR	ON	2009/05/13 14:07
S81	12	("1813666" I "1970369" I "2027423" I "3361231").PN. OR ("3698521").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 14:11
S82	5	("5592999").URPN.	USPAT	OR	ON	2009/05/13 14:18

S86	2968	angular with (shock or absorber or dashpot)	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 14:37
S87	102	angular near (shock or absorber or dashpot)	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 14:37
S88	22	("4044865" l "4056040" l "4212087" l "4595179" l "5376135" l "5405409" l "5443521").PN. OR ("5948021").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 14:58
S89	77	("0301522" l "0302503" l "0326224" l "0852570" l "0938168" l "1603588" l "4351538" l "4382605" l "4402521" l "4915399" l "5257793").PN. OR ("5503413").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 15:10
S90	24	("2980441" l "3010715" l "4325541" l "4555096" l "4635745" l "5129634" l "5192100" l "5454455").PN. OR ("5667203").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 15:22
S91	48	("2532955" l "2832334" l "3707963" l "4233967" l "4320747" l "4340041" l "435361" l "4397308" l "4508111" l "4531515" l "4605227" l "4614181" l "4620532" l "4655201" l "4657000" l "4666158" l "4688130" l "4718665" l "4738252" l "4791916" l "4809688" l "4881533").PN. OR ("5002044").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 15:25
S92	5	("4854562").URPN.	USPAT	OR	ON	2009/05/13 15:32
S93	7	(eccentric adj center) with (absorber or dashpot or damper)	USPAT	OR	ON	2009/05/13 15:38
S94	7	(piston adj parallel) with (absorber or damper or dashpot)	USPAT	OR	ON	2009/05/13 15:39
S95	1	(piston adj eccentric) with (absorber or damper or dashpot)	USPAT	OR	ON	2009/05/13 15:40
S96	45	nonlinear adj (absorber or damper or dashpot)	USPAT	OR	ON	2009/05/13 15:41
S97	0	(eccentric adj opening) with (absorber or damper or dashpot)	USPAT	OR	ON	2009/05/13 15:43
S98	0	(eccentric near opening) with (absorber or damper or dashpot)	USPAT	OR	ON	2009/05/13 15:43
S99	2	(eccentric near opening) same (absorber or damper or dashpot)	USPAT	OR	ON	2009/05/13 15:43
S100	21	(eccentric near opening) and (absorber or damper or dashpot)	USPAT	OR	ON	2009/05/13 15:44
S101	14	("3573880" l "4341396" l "4377298" l "4903985" l "5048859").PN. OR ("6199882").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/13 15:51
S102	1	("4911416").PN.	US-PGPUB; USPAT	OR	OFF	2009/05/13 16:02
S103	2	(("5503413") or ("6382602")) PN.	US-PGPUB; USPAT	OR	OFF	2009/05/16 13:42
S104	4650	"shock absorber" same transverse	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:29

S105	945	S104 same resilient	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:29
S106	24	"shock absorber" same (transverse near angle)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:30
S107	24	"shock absorber" same (shaft near angle)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:32
S108	1	"shock absorber" same (shaft near "nonlinear")	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:34
S109	91	"shock absorber" same "nonlinear"	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:34
S110	3	"shock absorber" adj "nonlinear"	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:41
S111	7	"shock absorber" same (force near angle)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:42
S112	24	"shock absorber" same (angle near shaft)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:44
S113	0	"shock absorber" same (robot near limb)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:47
S114	0	"shock absorber" same (robot same limb)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:47
S115	2	"shock absorber" same (robot same elbow)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:47
S116	11420	"shock absorber" same arm	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:48
S117	108	S116 and (robot or bionic or biotic)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:48
S118	24	("0629392" l "1664150" l "2055396" l "5182967").PN. OR ("5535709").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:51
S119	19	("1271568" l "2106068" l "2491548" l "3613465" l "4475374" l "4702428").PN. OR ("5182967").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 12:53
S120	1	rotation same linear same conversion same "shock absorber"	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 13:06
S121	35	rotation same conversion same "shock absorber"	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/07 13:06
S122	7	("3170412").URPN.	USPAT	OR	ON	2010/01/07 13:08

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1475	(606/246,257,265,266,279).CCLS.	US-PGPUB; UPAD	OR	OFF	2010/03/19 12:21
L4	2	L2 and (damp\$5 and body and rod).clm.	USPAT; UPAD	OR	ON	2010/03/19 12:23
L5	3	L2 and (damp\$5).clm.	USPAT; UPAD	OR	ON	2010/03/19 12:25
S123	87	(606/246).CCLS.	UPAD	OR	OFF	2010/01/07 13:19

S124	0	S123 and (body and rod and damp\$6 and incline).clm.	USPAT; UPAD	OR	ON	2010/01/07 13:20
S125	2	S123 and (body and rod and damp\$6).clm.	USPAT; UPAD	OR	ON	2010/01/07 13:20

3/19/2010 12:30:15 PM

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